

256351.txt
 SEQUENCE LISTING

<110> Carter Holt Harvey Limited
 Fletcher Challenge Forests Limited
 Michigan Technological University
 Podila, Gopi Krishna
 Liu, Jun-Jun
 Karnosky, David F

<120> Plants Having Modified Reproductive Activity

<130> 25635 MRB

<140>

<141>

<150> NZ334715

<151> 1999-03-17

<160> 17

<170> PatentIn Ver. 2.1

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<213> Pinus radiata

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<223> Pinus radiata MADS box protein mRNA, complete cds

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<300>
<301> Jun-Jun, Liu
      Podila, G K.
<302> Not applicable
<303> Direct submission
<304> -
<305> -
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<307> 1997-09-09
<308> Genbank AF023615
<309> 1999-01-26
<313> 1 TO 909

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cga cag gtc act ttc tgc aag cgc cga aat ggt tta tta aag aag gcg 96
Arg Gln Val Thr Phe Cys Lys Arg Arg Asn Gly Leu Leu Lys Lys Ala
             20             25             30

tat gaa tta tca gtt ctt tgt gat gca gaa gtg gcc ctc atc gtc ttc 144
Tyr Glu Leu Ser Val Leu Cys Asp Ala Glu Val Ala Leu Ile Val Phe
             35             40             45

tcc agc aga ggg aga ctt tat gaa ttt gcc aac cac agc gtg aag agg 192
Ser Ser Arg Gly Arg Leu Tyr Glu Phe Ala Asn His Ser Val Lys Arg
             50             55             60

acg att gag agg tac aag aag act tgc gtt gac aac aac cac gga ggg 240

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 85 90 95
 ctc aga caa cag att gac att ttg caa aat gca aat agg cat ttg atg 336
 Leu Arg Gln Gln Ile Asp Ile Leu Gln Asn Ala Asn Arg His Leu Met
 100 105 110
 ggt gac ggg ctt aca gct ttg aac att aag gaa ctc aag caa ctt gag 384
 Gly Asp Gly Leu Thr Ala Leu Asn Ile Lys Glu Leu Lys Gln Leu Glu
 115 120 125
 gtt cga ctt gaa aaa gga atc agc cga gtg cga tcc aaa aag aac gag 432
 Val Arg Leu Glu Lys Gly Ile Ser Arg Val Arg Ser Lys Lys Asn Glu
 130 135 140
 atg ttg ctt gaa gag atc gac atc atg cag aga agg gaa cac ata ctt 480
 Met Leu Leu Glu Glu Ile Asp Ile Met Gln Arg Glu His Ile Leu
 145 150 155 160
 atc cag gag aat gag att ctt cgc agc aag ata gcc gag tgt cag aat 528
 Ile Gln Glu Asn Glu Ile Leu Arg Ser Lys Ile Ala Glu Cys Gln Asn
 165 170 175
 agc cac aac acg aac atg tta tca gct ccg gaa tat gat gca ctg ccc 576
 Ser His Asn Thr Asn Met Leu Ser Ala Pro Glu Tyr Asp Ala Leu Pro
 180 185 190
 gca ttc gac tct cga aat ttc cta cat gca aat cta atc gat gcg gcc 624
 Ala Phe Asp Ser Arg Asn Phe Leu His Ala Asn Leu Ile Asp Ala Ala
 195 200 205
 cat cac tat gca cat cag gaa caa aca acg ctt cag ctt ggc tga 669
 His His Tyr Ala His Gln Glu Gln Thr Thr Leu Gln Leu Gly
 210 215 220
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 Tyr Glu Leu Ser Val Leu Cys Asp Ala Glu Val Ala Leu Ile Val Phe
 35 40 45
 Ser Ser Arg Gly Arg Leu Tyr Glu Phe Ala Asn His Ser Val Lys Arg
 50 55 60
 Thr Ile Glu Arg Tyr Lys Lys Thr Cys Val Asp Asn Asn His Gly Gly
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65          70          75          80
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          100          105          110
Gly Asp Gly Leu Thr Ala Leu Asn Ile Lys Glu Leu Lys Gln Leu Glu
          115          120          125
Val Arg Leu Glu Lys Gly Ile Ser Arg Val Arg Ser Lys Lys Asn Glu
          130          135          140
Met Leu Leu Glu Glu Ile Asp Ile Met Gln Arg Arg Glu His Ile Leu
          145          150          155          160
Ile Gln Glu Asn Glu Ile Leu Arg Ser Lys Ile Ala Glu Cys Gln Asn
          165          170          175
Ser His Asn Thr Asn Met Leu Ser Ala Pro Glu Tyr Asp Ala Leu Pro
          180          185          190
Ala Phe Asp Ser Arg Asn Phe Leu His Ala Asn Leu Ile Asp Ala Ala
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<222> (16)..(795)

<223> Arabidopsis thaliana ribonuclease (RNS2) mRNA,
complete cds

<300>

<301> Taylor, C B.

Baricola, P A.

delCardayre, S B.

Raines, R T.

Green, P J.

<302> RNS2: a senescence-associated RNase of Arabidopsis that
diverged from the S-RNases before speciation

<303> Proc. Natl. Acad. Sci. U.S.A.

<304> 90

<305> 11

<306> 5118-5122

<307> 1993

<308> Genbank

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<313> 1 TO 1012

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cag agg gag ttc gat tat ttc gct cta tct ctt caa tgg cct gga acc 147
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ggc	tcc	gat	gct	cca	act	caa	ttc	aca	att	cat	ggg	tta	tgg	cct	gac	243
Gly	Ser	Asp	Ala	Pro	Thr	Gln	Phe	Thr	Ile	His	Gly	Leu	Trp	Pro	Asp	
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Glu	Lys	Glu	Ile	Ser	Thr	Leu	Met	Asp	Gly	Leu	Glu	Lys	Tyr	Trp	Pro	
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Ser	Leu	Ser	Cys	Gly	Ser	Pro	Ser	Ser	Cys	Asn	Gly	Gly	Lys	Gly	Ser	
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Lys	His	Asn	Val	Thr	Asp	Val	Leu	Tyr	Gln	Ala	Gly	Tyr	Val	Ala	Ser	
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Asn	Ser	Glu	Lys	Tyr	Pro	Leu	Gly	Gly	Ile	Val	Thr	Ala	Ile	Gln	Asn	
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205					210					215					220	
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Gly	Ser	Gln	Asp	Leu	Thr	Ser	Arg	Lys	Ser	Cys	Pro	Lys	Tyr	Val	Ser	
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Leu	Pro	Glu	Tyr	Thr	Pro	Leu	Asp	Gly	Glu	Ala	Met	Val	Leu	Lys	Met	
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 50 55 60
 Pro Thr Gln Phe Thr Ile His Gly Leu Trp Pro Asp Tyr Asn Asp Gly
 65 70 75 80
 Ser Trp Pro Ser Cys Cys Tyr Arg Ser Asp Phe Lys Glu Lys Glu Ile
 85 90 95
 Ser Thr Leu Met Asp Gly Leu Glu Lys Tyr Trp Pro Ser Leu Ser Cys
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 Gly Ser Pro Ser Ser Cys Asn Gly Gly Lys Gly Ser Phe Trp Gly His
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 165 170 175
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 180 185 190
 Thr Pro Glu Val Val Cys Lys Arg Asp Ala Ile Asp Glu Ile Arg Ile
 195 200 205
 Cys Phe Tyr Lys Asp Phe Lys Pro Arg Asp Cys Val Gly Ser Gln Asp
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<210> 15

<211> 18

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